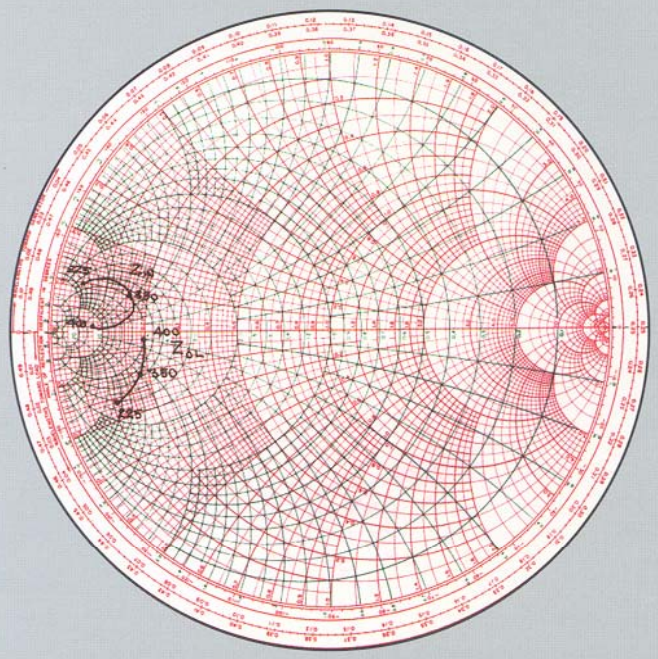
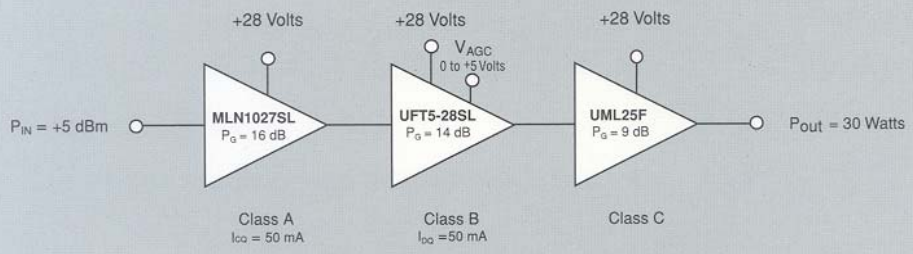
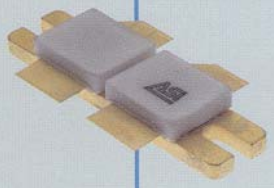
RF & MICROWAVE POWER TRANSISTORS







ADVANCED SEMICONDUCTOR, INC.

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INTRODUCTION

ASI was established in 1979 to serve the semiconductor needs of the North American OEM community. In the ensuing two decades ASI has grown to a position of leadership serving commercial and military markets throughout the world.

ASI has built its reputation by providing superior quality semiconductors, responsive service and on time product delivery.

ASI offers a wide range of standard silicon based semiconductors. The transistor product line includes small signal and power types featuring bipolar and FET devices. The diode product line encompasses power rectifiers, thyristors and microwave diodes. Whether your design requires a standard or custom transistor, ASI has the right solution.

CATALOG

This is the first ASI short form catalog featuring RF power transistors. It includes all standard silicon bipolar and MOSFET power transistors.

This catalog is arranged by major product line and within each product line it is arranged by frequency and application. An alphanumeric part number index is located in the front of the catalog. A comprehensive industry cross-reference is located at the end of the product section. As with any cross-reference recommendation the transistor should be evaluated in the specific circuit used to determine compatibility.

MISSION STATEMENT

ASI's mission is to provide products that meet specification, exceed customer expectations and that are continuously being improved.

Fred Golob
President
Advanced Semiconductor, Inc.

HOW TO ORDER:

Orders may be placed directly with our sales department or through our authorized sales representatives. Telephone orders are considered to be advance verbal instructions and written confirmation, sent by mail or fax is required. The minimum order is $250.00 per order.

TERMS AND CONDITIONS:

Prices are quoted (F.O.B.) factory and are valid for thirty (30) days from the date of the quotation unless otherwise specified.

Payment terms are 2% ten days, net thirty from date of invoice if credit has been approved. Complete terms and conditions of sale appear on ASI packing lists.

WARRANTY:

ASI warrants each transistor to meet all published specifications and to be free from defects in material and workmanship. The company's liability under this warranty is limited to repair, adjustment and/or replacement of defective parts returned, freight paid by Buyer, to the factory within one year from date of shipment. Damage by misuse or abnormal conditions of operation void this warranty.

RETURNED MATERIAL:

Returned product will not be accepted without first obtaining a Returned Material Authorization (RMA) from the factory.

We require that complete information be included with returns, including a detailed description of the reason for the return, along with the date and purchase order on which the material was obtained.

SALES & ENGINEERING SUPPORT:

Many of the products manufactured and distributed by ASI are described in more detail on individual data sheets. Datasheets are available on our website at:

www.advancedsemiconductor.com

ASI maintains a staff of sales and engineering professionals to assist with information on the capabilities, characteristics, and application of the transistors listed within this catalog. For application assistance and/or additional information you may reach us at:

sales@advancedsemiconductor.com

DISCLAIMER:

ASI reserves the right to change specifications, models, prices or designs without prior notice and without liability for such changes.

ASI products are not designed, intended or authorized for use in systems intended for surgical implant, life support, life sustaining or any application in which a failure of the ASI product could create a situation where personal injury or death may occur.

FSCM/EIA CODE:

ASI has been assigned FSCM No. **4U751** by the U.S. Government. The EIA code for ASI is **66**.

CORRESPONDENCE:

Our address for all customer correspondence is:

Advanced Semiconductor, Inc.
7525 Ethel Ave.
N. Hollywood, California 91605-1912

Telephone: **(818) 982-1200**
(800) 423-2354 (outside CA)
FAX: **(818) 765-3004**

QUALITY ASSURANCE & RELIABILITY

ASI is committed to achieving excellence in customer service and product quality. The current quality system is in accordance with MIL-I-45208 and incorporates elements of MIL-Q-9858A. A program to implement ISO9000 is under way. Test equipment is calibrated in accordance with MIL-C-45662.

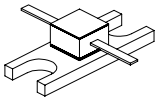
ASI RF/Microwave power transistors incorporate the ***Omnigold***™ Metalization system insuring maximum reliability. All power products utilize eutectic die bonding for superior die attach integrity, ruggedness and thermal resistance performance.

ASI offers three (3) reliability grades including an equivalent to JANTX. ASI utilizes procedures based on MIL-S-19500 and MIL-STD-750 for device pre-conditioning, screening and qualification testing. Summaries of the three reliability grades are detailed in the chart below.

EXAMINATION / TEST	MIL-STD-750 METHOD	ASI Standard Grade	ASI MIL Grade	JANTX Equivalent Screening
Internal Visual	2071	---	0.65 % AQL	0.65 % AQL
High Temp. Stabilization Bake	1032	100%	100 %	100 %
Temp. Cycling	1051	---	100%	100 %
Constant Acceleration	2006	---	---	100 %
PIND	2052	---	---	100 %
Hermeticity – Fine Leak	1071	---	100 %	100 %
Hermeticity – Gross Leak	1071	0.65 % AQL	100 %	100 %
High Temp. Reverse Bias	1039	---	---	100 %
Forward Bias Burn-In	1039	---	100 %	100 %
Group A Testing	Per SCD	---	---	100 %
External Visual	7071	0.65 % AQL	0.65 % AQL	100 %

PRODUCT INDEX

PRODUCT INDEX



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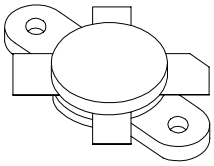

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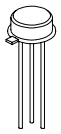

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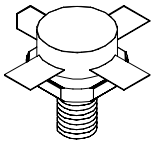

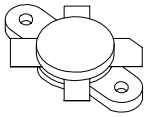

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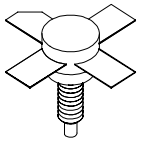

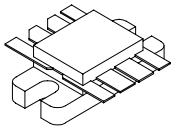

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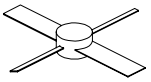

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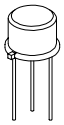

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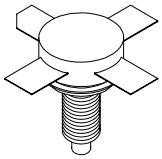

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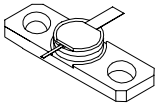

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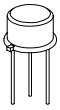

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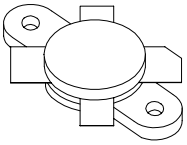

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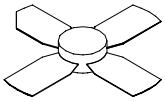

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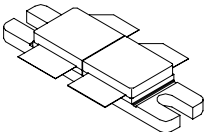

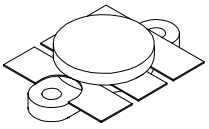

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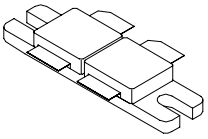

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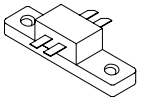

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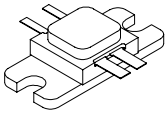

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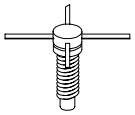

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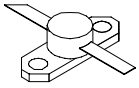

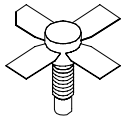

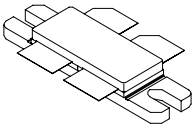

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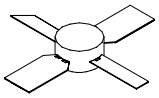

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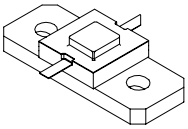

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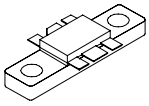

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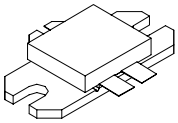

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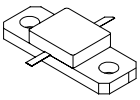

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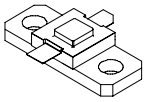

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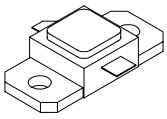

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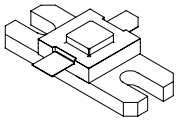

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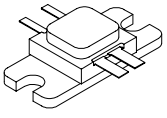
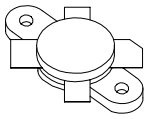
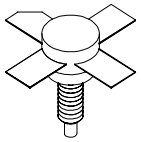


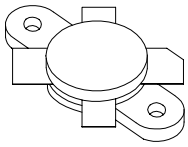
.400 Bal Flg (A)

HF SSB

ASI HF transistors are characterized for broadband amplifier operation, 2-30MHz devices provide high linear power output for a variety of military, commercial and amateur communication equipment.


.380 4L Flg


.380 4L Stud


.500 4L Flg

12.5 Volt, Class AB Linear

PART NUMBER	FREQ. MHz	P_{OUT} Min. Watts (pep)	P_G Min. dB	BIAS V_{CE} Volts	BIAS I_{CQ} mA	IMD_3 dBc	θ_{JC} Max. °C/W	PACKAGE STYLE
HF5-12F	30	5.0	20.0	12.5	15	-30	13.5	.380 4L Flg
HF5-12S	30	5.0	20.0	12.5	15	-30	13.5	.380 4L Stud
HF10-12F	30	10	20.0	12.5	20	-30	4.4	.380 4L Flg
HF10-12S	30	10	20.0	12.5	20	-30	4.4	.380 4L Stud
HF20-12F	30	20	18.0	12.5	25	-30	2.2	.380 4L Flg
HF20-12S	30	20	18.0	12.5	25	-30	2.2	.380 4L Stud
HF50-12F	30	50	16.0	12.5	75	-30	1.05	.380 4L Flg
HF50-12S	30	50	16.0	12.5	75	-30	1.05	.380 4L Stud
HF75-12	30	75	13.0	12.5	100	-30	0.65	.500 4L Flg
HF100-12	30	100	12.0	12.5	100	-30	0.6	.500 4L Flg

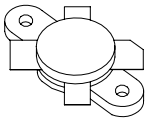
All transistors are configured common emitter.

28 Volt, Class AB Linear

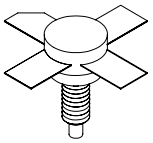
PART NUMBER	FREQ. MHz	P_{OUT} Min. Watts (pep)	P_G Min. dB	BIAS V_{CE} Volts	BIAS I_{CQ} mA	IMB_3 dBc	θ_{JC} Max. °C/W	PACKAGE STYLE
HF8-28F	30	8.0	21.0	28.0	10	-30	13.5	.380 4L Flg
HF8-28S	30	8.0	21.0	28.0	10	-30	13.5	.380 4L Stud
HF15-28F	30	15	21.0	28.0	20	-30	4.4	.380 4L Flg
HF15-28S	30	15	21.0	28.0	20	-30	4.4	.380 4L Stud
HF30-28F	30	30	20.0	28.0	25	-30	2.2	.380 4L Flg
HF30-28S	30	30	20.0	28.0	25	-30	2.2	.380 4L Stud
HF75-28F	30	75	18.0	28.0	75	-30	1.05	.380 4L Flg
HF75-28S	30	75	18.0	28.0	75	-30	1.05	.380 4L Stud
HF100-28	30	100	15.0	28.0	100	-30	0.65	.500 4L Flg
HF220-28	30	220	12.0	28.0	100	-30	0.55	.500 4L Flg

All transistors are configured common emitter.

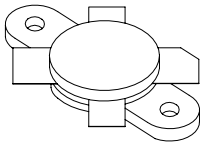
All transistors are configured common emitter.



.380 4L Flg



.380 4L Stud



.500 4L Flg

50 Volt, Class AB Linear

PART NUMBER	FREQ. MHz	P_{OUT} Min. Watts (pep)	P_G Min. dB	BIAS V_{CE} Volts	BIAS I_{CQ} mA	IMD_3 dBc	θ_{JC} Max. °C/W	PACKAGE STYLE
HF75-50F	30	75	14	-30	50.0	50	2.0	.500 4L Flg
HF75-50S	30	75	14	-30	50.0	50	2.0	.380 4L Stud
HF150-50F	30	150	14	-30	50.0	100	0.75	.500 4L Flg
HF150-50S	30	150	14	-30	50.0	100	0.75	.500 4L Stud (A)
HF220-50	30	220	13	-30	50.0	150	0.55	.500 4L Flg
HF250-50	30	220	14	-30	50.0	150	0.40	.550 4L Flg

All transistors are configured common emitter.

Class AB Linear, MOSFET

PART NUMBER	FREQ. MHz	P_{OUT} Min. Watts (pep)	P_G Min. dB	BIAS V_{DS} Volts	BIAS I_{DQ} mA	IMD_3 dBc	θ_{JC} Max. °C/W	PACKAGE STYLE
HFT150-28	30	150	16	28	250	-28	0.60	.500 4L Flg
HFT150-50	30	150	16	50	250	-32	0.60	.500 4L Flg

All transistors are configured common source.

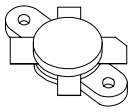
NOTE

All **HF** series bipolar transistors are available as h_{FE} matched pairs or matched quads by adding MP or MQ suffix to part number.

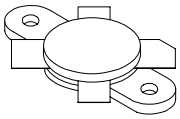
Example

HF150-50F**MP** = matched pair of HF150-50F
HF150-50F**MQ** = matched quad of HF150-50F

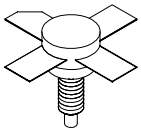
VHF FM



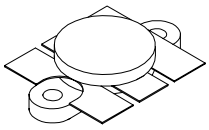
.380 4L Flg



.500 4L Flg



.380 4L Stud



.500 6L Flg

12.5 Volt, Low-Band

PART NUMBER	FREQ. Nom. MHz	P_{OUT} Min. Watts	P_G Min. dB	V_{CC} Volts	η_C Typ. %	C_{OB} Max. pF	θ_{JC} Max. °C/W	PACKAGE STYLE
VLB10-12F	50	10	16.0	12.5	60	65	5.0	.380 4L Flg
VLB10-12S	50	10	16.0	12.5	60	65	5.0	.380 4L Stud
VLB40-12F	50	40	13.0	12.5	60	100	2.5	.380 4L Flg
VLB40-12S	50	40	13.0	12.5	60	100	2.5	.380 4L Stud
VLB70-12F	50	70	10.0	12.5	60	270	1.05	.380 4L Flg
VLB70-12S	50	70	10.0	12.5	60	270	1.05	.380 4L Stud
VLB100-12	50	100	7.0	12.5	60	400	0.65	.500 4L Flg

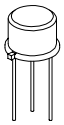
All transistors are configured common emitter and are operated Class C.

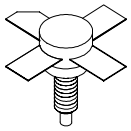
12.5 & 28 Volt, Mid-Band

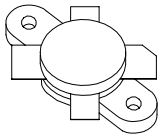
PART NUMBER	FREQ. Nom. MHz	P_{OUT} Min. Watts	P_G Min. dB	V_{CC} Volts	η_C Typ. %	C_{OB} Max. pF	θ_{JC} Max. °C/W	PACKAGE STYLE
VMB10-12F	88	10	13.0	12.5	60	65	5.0	.380 4L Flg
VMB10-12S	88	10	13.0	12.5	60	65	5.0	.380 4L Stud
VMB40-12F	88	40	10.0	12.5	60	165	2.5	.380 4L Flg
VMB40-12S	88	40	10.0	12.5	60	165	2.5	.380 4L Stud
VMB70-12F	88	70	7.0	12.5	60	270	1.05	.380 4L Flg
VMB70-12S	88	70	7.0	12.5	60	270	1.05	.380 4L Stud
VMB100-12	88	100	10.0	12.5	60	400	0.65	.500 6L Flg
VMB80-28F	88	80	10.0	28.0	60	200	1.05	.380 4L Flg
VMB80-28S	88	80	10.0	28.0	60	200	1.05	.380 4L Stud
VMB150-28	88	150	13.0	28.0	60	335	0.65	.500 6L Flg

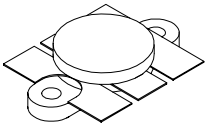
All transistors are configured common emitter and are operated Class C.

VHF FM


TO-39


.380 4L Stud


.380 4L Flg


.500 6L Flg

12.5 Volt, High-Band

PART NUMBER	FREQ. Nom. MHz	P_{OUT} Min. Watts	P_G Min. dB	V_{CC} Volts	η_C Typ. %	C_{OB} Max. pF	θ_{JC} Max. °C/W	PACKAGE STYLE
VHB1-12T	175	1.0	10	12.5	60	4	20	TO-39
VHB10-12F	175	10	10	12.5	60	45	8.8	.380 4L Flg
VHB10-12S	175	10	10	12.5	60	45	8.8	.380 4L Stud
VHB25-12F	175	25	10	12.5	60	110	3.5	.380 4L Flg
VHB25-12S	175	25	10	12.5	60	110	3.5	.380 4L Stud
VHB40-12F	175	40	8.5	12.5	60	135	2.9	.380 4L Flg
VHB40-12S	175	40	8.5	12.5	60	135	2.9	.380 4L Stud
VHB80-12*	175	80	7	12.5	60	380	0.75	.500 6L Flg
VHB100-12*	175	100	6	12.5	60	420	0.65	.500 6L Flg

All transistors are configured common emitter and are operated Class C.
**Features internal input matching network*

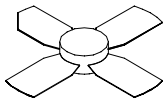
28 Volt, High-Band

PART NUMBER	FREQ. Nom. MHz	P_{OUT} Min. Watts	P_G Min. dB	V_{CC} Volts	η_C Typ. %	C_{OB} Max. pF	θ_{JC} Max. °C/W	PACKAGE STYLE
VHB1-28T	175	1.0	13	28.0	60	3	35	TO-39
VHB10-28F	175	10	10	28.0	60	15	5.5	.380 4L Flg
VHB10-28S	175	10	10	28.0	60	15	5.5	.380 4L Stud
VHB25-28F	175	25	8.5	28.0	60	50	4.4	.380 4L Flg
VHB25-28S	175	25	8.5	28.0	60	50	4.4	.380 4L Stud
VHB40-28F	175	40	7.5	28.0	60	65	2.9	.380 4L Flg
VHB40-28S	175	40	7.5	28.0	60	65	2.9	.380 4L Stud
VHB50-28F	175	50	6	28.0	60	80	2.3	.380 4L Flg
VHB50-28S	175	50	6	28.0	60	80	2.3	.380 4L Stud
VHB125-28*	175	125	9	28.0	60	250	0.65	.500 6L Flg

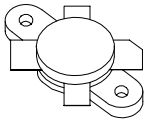
All transistors are configured common emitter and are operated Class C.
**Features internal input matching network.*

VHF& UHF

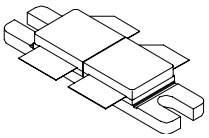
Our MOSFETS are designed for high power linear amplifier applications at frequencies up to 400 MHz.



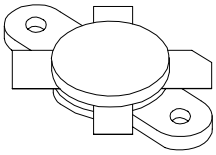
.280 4L Pill



.380 4L Flg



.400 Bal Flg



.500 4L Flg

175 MHz, VHF

PART NUMBER	FREQ. Nom. MHz	P_{OUT} Min. Watts	P_G Min. dB	BIAS V_{DS} Volts	BIAS I_{DQ} mA	η_D Typ. %	θ_{JC} Max. °C/W	PACKAGE STYLE
VFT5-28SL	175	5.0	20	28.0	50	55	10	.280 4L Pill
VFT5-28	175	5.0	13	28.0	50	55	10	.380 4L Flg
VFT15-28	175	15	13	28.0	25	60	3.2	.380 4L Flg
VFT30-28	175	30	13	28.0	25	60	1.8	.380 4L Flg
VFT45-28	175	45	12	28.0	25	60	1.75	.380 4L Flg
VFT80-28	175	80	10	28.0	25	60	1.5	.380 4L Flg
VFT150-28	175	150	10	28.0	250	60	0.6	.500 4L Flg
VFT300-28	175	300	12	28.0	500	55	0.35	.400 Bal Flg (D)
VFT30-50	175	30	15	50.0	100	60	1.52	.380 4L Flg
VFT150-50	175	150	13	50.0	250	55	0.6	.500 4L Flg
VFT300-50	175	300	14	50.0	500	65	0.35	.400 Bal Flg (D)

All transistors are configured common source and biased Class AB.

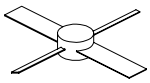
225 - 400 MHz, UHF

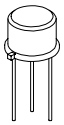
PART NUMBER	FREQ. Nom. MHz	P_{OUT} Min. Watts	P_G Min. dB	BIAS V_{DS} Volts	BIAS I_{DQ} mA	η_D Typ. %	θ_{JC} Max. °C/W	PACKAGE STYLE
UFT5-28SL	400	4.0	14	28.0	50	55	10	.280 4L Pill
UFT5-28	400	4.0	9	28.0	50	55	10	.380 4L Flg
UFT15-28	400	12	8	28.0	25	60	3.2	.380 4L Flg
UFT30-28	400	25	7	28.0	25	60	1.8	.380 4L Flg
UFT150-28	400	150	10	28.0	2 x 100	55	0.6	.400 Bal Flg (D)

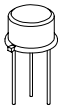
All transistors are configured common source and biased Class AB.

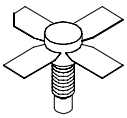
UHF

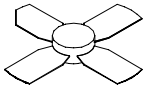
A broad range of 12.5 and 24volt, Class C power devices are offered for FM Land Mobile and FM Base Station applications.

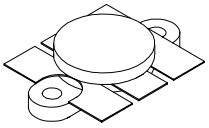

.205 4L Pill

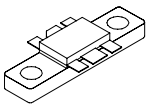

TO-39


TO-39GE


.280 4L Stud


.280 4L Pill


.500 6L Flg


.230 6L Flg

FM Land Mobile

PART NUMBER	FREQ. Nom. MHz	P_{OUT} Min. Watts	P_G Min. dB	V_{CC} Volts	η_C Typ. %	C_{OB} Max. pF	θ_{JC} Max. °C/W	PACKAGE STYLE
ULBM05	470	0.5	13.0	12.5	60	4	70.0	.205 4L Pill
ULBM2T	470	2.0	6.0	12.5	55	10	35.0	TO-39
ULBM2TE	470	2.0	8.0	12.5	55	10	35.0	TO-39GE
ULBM2	470	2.0	10.0	12.5	60	10	35.0	.280 4L Stud
ULBM2SL	470	2.0	10.0	12.5	60	10	35.0	.280 4L Pill
ULBM5	470	5.0	8.5	12.5	60	22	12.0	.280 4L Stud
ULBM5SL	470	5.0	8.5	12.5	60	22	12.0	.280 4L Pill
ULBM10	470	10	7.0	12.5	60	25	7.0	.280 4L Stud
ULBM15*	470	15	7.5	12.5	60	50	5.0	.500 6L Flg
ULBM25*	470	25	6.5	12.5	60	80	2.5	.500 6L Flg
ULBM35*	470	35	6.0	12.5	60	110	1.5	.500 6L Flg
ULBM45*	470	45	5.0	12.5	60	150	1.0	.500 6L Flg
UHBM45*[1]	836	45	4.7	12.5	35	90	1.2	.230 6L Flg

Unless specified, all transistors are configured common emitter and operated Class C.
** Features internal input matching network.*
[1] Configured common base.

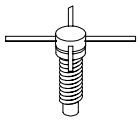
FM Base Station

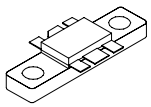
PART NUMBER	FREQ. Nom. MHz	P_{OUT} Min. Watts	P_G Min. dB	V_{CC} Volts	η_C Typ. %	C_{OB} Max. pF	θ_{JC} Max. °C/W	PACKAGE STYLE
UHBS15-1	900	15	9.5	24.0	55	25	3.0	.230 6L Flg
UHBS15-2	960	15	9.0	24.0	50	25	3.0	.230 6L Flg
UHBS30-1	900	30	7.5	24.0	55	50	1.5	.230 6L Flg
UHBS30-2	960	30	7.0	24.0	50	50	1.5	.230 6L Flg
UHBS60-1	900	60	7.5	24.0	55	75	0.9	.230 6L Flg
UHBS60-2	960	60	7.0	24.0	50	75	0.9	.230 6L Flg

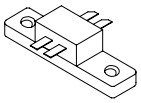
All transistors are configured common base, feature internal input matching network and are operated Class C.

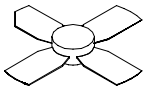
UHF

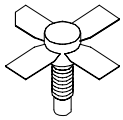
ASI offers broadband transistors that are characterized for UHF military communications and other wideband applications.

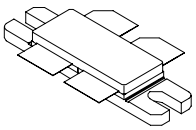

.205 4L Stud

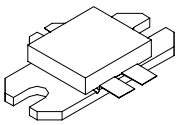

.230 6L Flg


.250 Bal Flg


.280 4L Pill


.280 4L Stud


.400 Bal Flg (C)


.450 Bal Flg (A)

Cellular Base Station

PART NUMBER	FREQ. Nom. MHz	P_{OUT} Min. Watts	P_G Min. dB	BIAS V_{CC} Volts	BIAS I_{CQ} mA	C_{OB} Max. pF	θ_{JC} Max. °C/W	PACKAGE STYLE
CBSL1[1]	960	1.0	10.0	24.0	125	5	25.0	.280 4L Stud
CBSL1SL[1]	960	1.0	10.0	24.0	125	5	25.0	.280 4L Pill
CBSL2[1]	960	2.0	9.0	24.0	200	5	20.0	.280 4L Stud
CBSL2SS[2]	960	2.0	9.0	24.0	na	3.5	25.0	.205 4L Stud
CBSL6*	960	6.0	10.0	24.0	25	8.5	3.3	.230 6L Flg
CBSL15*	960	15	8.0	24.0	75	25	6.0	.230 6L Flg
CBSL30*	960	30	7.5	24.0	150	50	3.0	.230 6L Flg
CBSL30B*	960	30	7.5	24.0	2 x 75	25	3.0	.250 Bal Flg
CBSL60B**	960	60	8.5	26.0	2 x 200	–	1.2	.450 Bal Flg (A)
CBSL100**	960	100	9.0	26.0	2 x 100	–	0.6	.400 Bal Flg (C)
CBSL150**	960	150	8.0	26.0	2 x 150	–	0.6	.400 Bal Flg (C)

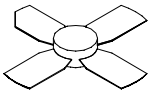
Unless specified all transistors are configured common emitter and bias Class AB.

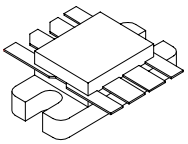
[1] *Specified for Class A operation.*

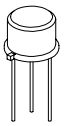
[2] *Specified for Class C operation.*

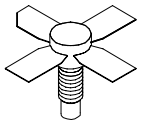
** Features internal input matching network.*

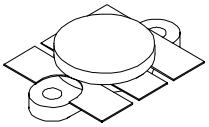
*** Features internal input and output matching networks.*


.280 4L Pill


.400 8L Flg


TO-39


.280 4L Stud


.500 6L Flg

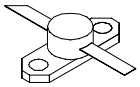
Military Communications

PART NUMBER	FREQ. Nom. MHz	P_{OUT} Min. Watts	P_G Min. dB	V_{CC} Volts	η_C Typ. %	C_{OB} Max. pF	θ_{JC} Max. °C/W	PACKAGE STYLE
UML1	400	1.0	13.0	28.0	60	5	20.0	.280 4L Stud
UML1SL	400	1.0	13.0	28.0	60	5	20.0	.280 4L Pill
UML1T	400	1.0	10.0	28.0	55	5	35.0	TO-39
UML3	400	3.0	12.0	28.0	60	6	16.0	.280 4L Stud
UML5	400	5.0	10.0	28.0	60	10	11.0	.280 4L Stud
UML10	400	10	10.0	28.0	60	15	8.0	.280 4L Stud
UML15	400	15	10.0	28.0	60	20	5.5	.280 4L Stud
UML25S	400	25	9.0	28.0	60	30	3.0	.280 4L Stud
UML25F*	400	25	9.0	28.0	60	30	2.5	.500 6L Flg
UML70*	400	70	8.5	28.0	60	80	1.25	.500 6L Flg
UML100*	400	100	7.0	28.0	60	115	0.7	.500 6L Flg
UML125B*	400 500	125 100	7.0 5.5	28.0 28.0	60 55	115	0.65	.400 8L Flg

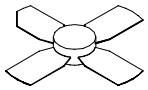
All transistors are configured common emitter and are operated Class C.
** Features internal input matching network.*

PULSED AVIONICS

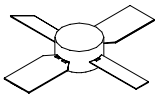
At ASI, we offer a broad variety of products specifically characterized for Avionics applications.



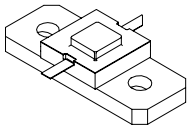
.250 2L Flg (B)



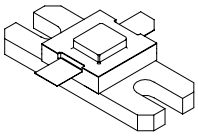
.280 4L Pill



.280 4L Pill (A)



.400 2NL Flg



.400 2L Flg (A)

1025 – 1150 MHz, DME/TACAN Applications

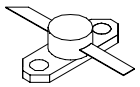
PART NUMBER	P_{OUT} Min. Watts	P_G Min. dB	Pulse Width µS	Duty Cycle %	V_{CC} Volts	η_C Min. %	θ_{JC} Max. °C/W	PACKAGE STYLE
AVD0.5P[1]	0.5	10.0	CW	CW	12.5	NA	35.0	.280 4L Pill
AVD002F	2.0	9.0	10	1	35.0	35	10.0	.250 2L Flg (B)
AVD002P	2.0	9.0	10	1	35.0	35	10.0	.280 4L Pill (A)
AVD004F	4.0	9.0	10	1	28.0	35	5.0	.250 2L Flg (B)
AVD004P	4.0	9.0	10	1	28.0	35	5.0	.280 4L Pill (A)
AVD015F	15	10.0	10	1	50.0	35	2.0	.250 2L Flg (B)
AVD015P	15	10.0	10	1	50.0	35	2.0	.280 4L Pill (A)
AVD035F	35	10.0	10	1	50.0	35	1.0	.250 2L Flg (B)
AVD035P	35	10.0	10	1	50.0	35	1.0	.280 4L Pill (A)
AVD075F	75	7.5	10	1	50.0	35	0.7	.250 2L Flg (B)
AVD075P	75	7.5	10	1	50.0	35	0.7	.280 4L Pill (A)
AVD090F	90	8.5	10	1	50.0	35	0.6	.250 2L Flg (B)
AVD090P	90	8.5	10	1	50.0	35	0.6	.280 4L Pill (A)
AVD150*	150	7.7	10	1	50.0	40	0.3	.400 2NL Flg
AVD250*	250	6.2	10	1	50.0	40	0.2	.400 2NL Flg
AVD350*	350	6.7	10	1	50.0	40	0.17	.400 2NL Flg
AVD400*	400	6.5	10	1	50.0	40	0.12	.400 2L Flg (A)
AVD550*	550	5.6	10	1	50.0	40	0.06	.400 2L Flg (A)

All transistors are configured common base unless specified; feature internal input matching network and operate Class C.

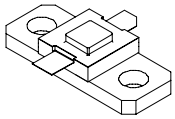
[1] Configured common emitter without internal matching network and biased Class A.

** Features internal input and output matching networks.*

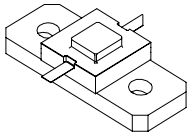
PULSED AVIONICS



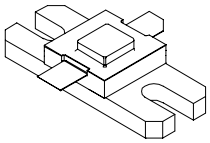
.250 2L Flg (B)



.310 2L Flg



.400 2NL Flg



.400 2L Flg (A)

1030 – 1090 MHz, IFF Applications

PART NUMBER	P_{OUT} Min. Watts	P_G Min. dB	Pulse Width µS	Duty Cycle %	V_{CC} Volts	η_C Min. %	θ_{JC} Max. °C/W	PACKAGE STYLE
AVF100	100	10.0	10	1	40.0	35	35.0	.250 2L Flg (B)
AVF150	150	8.5	10	1	43.0	40	0.6	.250 2L Flg (B)
AVF250	250	8.5	10	1	50.0	35	0.6	.400 2NL Flg
AVF300	300	7.7	10	1	50.0	40	0.3	.400 2NL Flg
AVF350	350	6.2	10	1	50.0	40	0.2	.400 2NL Flg
AVF400	400	6.7	10	1	50.0	35	0.17	.400 2NL Flg
AVF450	450	6.5	10	1	50.0	40	0.12	.400 2L Flg (A)
AVF600	600	5.6	10	1	50.0	35	0.06	.400 2L Flg (A)

All transistors are configured common base; feature internal input/output matching networks and operate Class C.

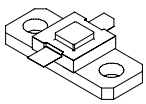
960 – 1215 MHz, JTIDS Applications

PART NUMBER	P_{OUT} Min. Watts	P_G Min. dB	Pulse Width µS	Duty Cycle %	V_{CC} Volts	η_C Min. %	θ_{JC} Max. °C/W	PACKAGE STYLE
AJT006	6.0	9.3	JTIDS FORMAT		45.0	40	7.0	.310 2L Flg
AJT015	15	8.1	JTIDS FORMAT		45.0	40	3.0	.310 2L Flg
AJT030	30	7.8	JTIDS FORMAT		50.0	40	2.2	.400 2L Flg
AJT085	85	7.5	JTIDS FORMAT		50.0	40	0.75	.400 2NL Flg
AJT150	150	7.5	JTIDS FORMAT		50.0	40	0.57	.400 2L Flg (A)

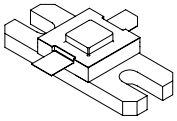
All transistors are configured common base; feature internal input/output matching networks and operate Class C.

PULSED RADAR

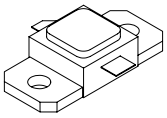
At ASI, we offer a complete line of short, medium and long pulse transistors for civil and military radar applications.



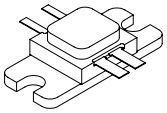
.310 2L Flg



.400 2L Flg (A)



.400 2L Flg



.400 Bal Flg (A)

400 – 500 MHz, UHF Radar

PART NUMBER	P_{OUT} Min. Watts	P_G Min. dB	Pulse Width μS	Duty Cycle %	V_{CC} Volts	η_C Min. %	θ_{JC} Max. °C/W	PACKAGE STYLE
AUR300	300	9.5	250	10	40.0	55	0.20	.400 Bal Flg (A)
AUR500	500	9.5	250	10	40.0	50	0.15	.400 Bal Flg (A)

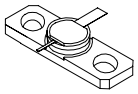
All transistors are configured common base; feature internal input matching networks and operate Class C.

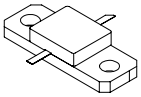
1200 – 1400 MHz, L-Band

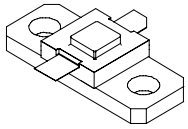
PART NUMBER	P_{OUT} Min. Watts	P_G Min. dB	Pulse Width μS	Duty Cycle %	V_{CC} Volts	η_C Min. %	θ_{JC} Max. °C/W	PACKAGE STYLE
ALR006	6.0	9.5	1000	10	28	47	9.0	.310 2L Flg
ALR015	15	8.5	1000	10	28.0	48	4.0	.310 2L Flg
ALR030	30	7.0	1000	10	28.0	45	2.4	.310 2L Flg
ALR060	60	6.5	1000	10	28.0	50	1.4	.310 2L Flg
ALR100	100	6.0	100	10	28.0	50	0.55	.400 2L Flg
ALR200	200	7.0	150	5	40.0	45	0.26	.400 2L Flg (A)
ALR325	325	6.5	13	2	45.0	38	0.10	.400 2L Flg (A)

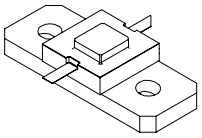
All transistors are configured common base; feature internal input/output matching networks and operate Class C.

CW MICROWAVE


.250 2L Flg


.250 2L Flg (A)


.310 2L Flg

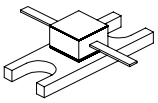

.400 2NL Flg

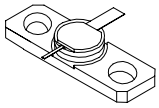
Common Base, Class C

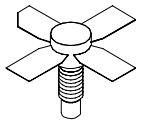
PART NUMBER	FREQ. GHz	P_{OUT} Min. Watts	P_G Min. dB	V_{CC} Volts	η_C Min. %	C_{OB} Max. pF	θ_{JC} Max. °C/W	PACKAGE STYLE
ASI1001	1.0	1.0	12.0	28	50	3.2	45	.250 2L Flg
ASI1002	1.0	2.0	12.0	28	50	3.2	25	.250 2L Flg
ASI1005	1.0	5.0	12.0	28	50	6.5	15	.250 2L Flg
ASI1010	1.0	10	12.0	28	50	10.0	8.5	.250 2L Flg
ASI1020	1.0	20	10.0	28	50	19.0	5.0	.250 2L Flg
ASAT10*	1.5-1.7	10	11.0	28	45	7.0	6.0	.250 2L Flg (A)
ASAT15*	1.5-1.7	15	9.2	28	45	12.0	4.7	.250 2L Flg (A)
ASAT20*	1.5-1.7	20	9.2	28	45	20.0	4.0	.250 2L Flg (A)
ASAT25**	1.5-1.7	25	9.0	28	50	na	3.5	.250 2L Flg (A)
ASAT30**	1.5-1.7	30	9.0	28	50	na	3.5	.250 2L Flg (A)
ASI2001	2.0	1.0	10.0	28	35	2.5	25	.250 2L Flg
ASI2003	2.0	3.0	10.0	28	35	3.5	15	.250 2L Flg
ASI2005	2.0	5.0	10.0	28	35	5.0	8.5	.250 2L Flg
ASI2010	2.0	10	5.0	28	35	7.5	5.0	.250 2L Flg
ASI2223-4**	2.2 -2.3	4.0	8.0	22	40	na	11	.400 2NL Flg
ASI2223-12**	2.2 -2.3	12	7.5	22	40	na	3.9	.310 2L Flg
ASI2223-20**	2.2 -2.3	20	7.0	22	40	na	2.7	.310 2L Flg
ASI2302	2.3	2.0	9.5	22	33	3.5	25	.250 2L Flg
ASI2304	2.3	4.0	9.5	22	33	5.0	13	.250 2L Flg
ASI2307	2.3	7.0	9.5	22	33	8.5	7.0	.250 2L Flg
ASI3000	3.0	0.5	7.0	28	30	2.5	45	.250 2L Flg
ASI3001	3.0	1.0	7.0	28	30	3.5	25	.250 2L Flg
ASI3003	3.0	3.0	5.0	28	30	5.0	15	.250 2L Flg
ASI3005	3.0	5.0	4.5	28	30	7.5	8.5	.250 2L Flg
ASI4000	4.0	0.5	5.0	28	25	2.5	45	.250 2L Flg
ASI4001	4.0	1.0	5.0	28	25	3.5	25	.250 2L Flg
ASI4003	4.0	3.0	5.0	28	25	5.0	12.5	.250 2L Flg

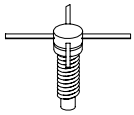
** Features internal input matching network.*
*** Features internal input and output matching networks*

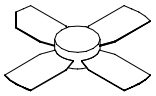
CW MICROWAVE

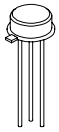

.138 2L Flg


.250 2L Flg


.280 4L Stud


.205 4L Stud


.280 4L Pill


TO-46

Common Emitter, Class A Linear

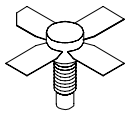
PART NUMBER	FREQ. Nom. GHz	P_{OUT} Min. Watts	P_G Min. dB	BIAS V_{CE} Volts	BIAS I_{CQ} mA	C_{OB} Max. pF	θ_{JC} Max. °C/W	PACKAGE STYLE
MLN1027F	1.0	0.5	12.0	20.0	100	3.5	25	.250 2L Flg
MLN1027SS	1.0	0.5	11.0	20.0	100	3.5	25	.205 4L Stud
MLN1027S	1.0	0.5	9.0	20.0	100	3.5	25	.280 4L Stud
MLN1027SL	1.0	0.5	9.0	20.0	100	3.5	25	.280 4L Pill
MLN1030F	1.0	1.0	12.0	20.0	150	5.0	20	.250 2L Flg
MLN1030SS	1.0	1.0	10.0	20.0	150	5.0	20	.205 4L Stud
MLN1030S	1.0	1.0	9.0	20.0	150	5.0	20	.280 4L Stud
MLN1030SL	1.0	1.0	9.0	20.0	150	5.0	20	.280 4L Pill
MLN1033F	1.0	2.0	12.0	18.0	220	5.5	17	.250 2L Flg
MLN1033S	1.0	2.0	9.0	18.0	220	5.5	17	.280 4L Stud
MLN1037F	1.0	5.0	10.0	20.0	800	15.0	5.5	.250 2L Flg
MLN1037S	1.0	5.0	8.0	20.0	800	15.0	5.5	.280 4L Stud
MLN2027F	2.0	0.5	8.0	20.0	120	4.0	25	.250 2L Flg
MLN2027SS	2.0	0.5	6.0	20.0	100	4.0	25	.205 4L Stud
MLN2030F	2.0	1.0	7.0	18.0	220	5.0	17	.250 2L Flg
MLN2030SS	2.0	1.0	10.0	18.0	220	5.0	20	.205 4L Stud
MLN2033F	2.0	2.0	12.0	18.0	220	5.0	17	.250 2L Flg
MLN2037F	2.0	5.0	5.0	20.0	800	15.0	5.5	.250 2L Flg

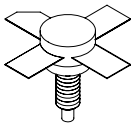
Common Collector, Oscillators

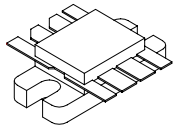
PART NUMBER	FREQ. Nom. GHz	P_{OUT} Min. Watts	BIAS V_{CC} Volts	BIAS I_{CQ} mA	η_C Typ. %	C_{OB} Max. pF	θ_{JC} Max. °C/W	PACKAGE STYLE
OSC-0.7L	1.68	0.7	18	150	25	5.0	25	TO-46
OSC-2.0SM	2.3	2.0	21	300	30	15.0	7	.250 2L Flg
OSC-1.3SH	2.7	1.3	21	200	30	12.0	8.5	.250 2L Flg
OSC-0.3C	7.5	0.3	12	120	22	1.5	30	.138 2L Flg

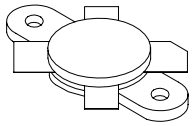
BROADCAST

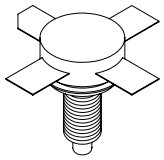
ASI TV/Linear transistors are specifically designed for television broadcast transmitters requiring ultra high linearity.

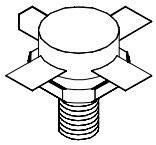

.280 4L Stud

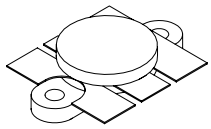

.380 4L Stud


.400 8L Flg


.500 4L Flg


.500 4L Stud


.500 4L Stud (A)


.500 6L Flg

108 MHz, Class C, FM Broadcast

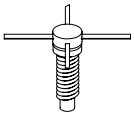
PART NUMBER	FREQ. Nom. MHz	P_{OUT} Min. Watts	P_G Min. dB	V_{CC} Volts	η_C Typ. %	C_{OB} Typ. pF	θ_{JC} Max. °C/W	PACKAGE STYLE
FMB075	108	75	10.0	28	65	75	1.5	.500 4L Flg
FMB150	108	150	9.0	28	65	140	1.1	.500 4L Flg
FMB175	108	175	10.0	28	65	200	0.7	.500 6L Flg

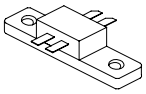
All transistors are configured common emitter and are operated Class C.

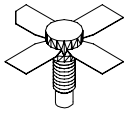
Television Band III

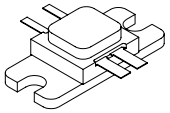
PART NUMBER	FREQ. Nom. MHz	P_{OUT} Min. Watts (PK Sync)	P_G Min. dB	BIAS V_{CE} Volts	BIAS I_C mA	IMD[1] Min. dBc	θ_{JC} Max. °C/W	PACKAGE STYLE
TVV005	225	5.0	15.0	28.0	1000	-55	3.5	.280 4L Stud
TVV007	225	7.5	10.0	25.0	1200	-55	3.3	.500 6L Flg
TVV010	225	10	10.0	25.0	1600	-54	2.2	.380 4L Stud
TVV014A	225	14	14.0	25.0	2500	-55	1.5	.500 6L Flg
TVV020	225	20	8.0	25.0	2500	-51	1.5	.500 4L Stud
TVV030	225	30	6.0	25.0	5000	-55	1.2	.500 6L Flg
TVV030A	225	30	7.5	25.0	3500	-53	1.2	.500 4L Stud (A)
TVV100	225	28	14.0	26.5	2 x 2250	-51	0.8	.400 8L Flg
	225	100*	11.0	28.0	2 x 100	–	–	

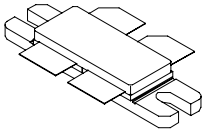
All transistors are configured common emitter.
[1] Vision = –8dB, Sound = –10dB and Chroma = –16dB
** 1 dB compression point.*

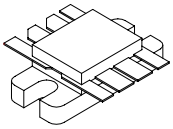

.205 4L Stud

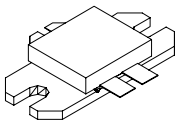

.250 Bal Flg

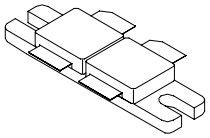

.280 4L Stud


.400 Bal Flg (A)


.400 Bal Flg (C)


.400 8L Flg


.450 Bal Flg (A)


.450 4L Flg (B)

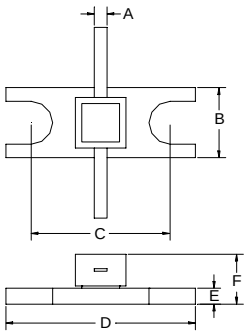
Television Band IV & V

PART NUMBER	FREQ. Nom. MHz	P_{OUT} Watts (PK Sync)	P_G Min. dB	BIAS V_{CE} Volts	BIAS I_C MA	IMD[1] Min. dBc	θ_{JC} Max. °C/W	PACKAGE STYLE
TVU 0.5	860	0.5	10.0	20.0	220	-58	22.0	.280 4L Stud
TVU 0.5A	860	0.5	9.5	20.0	150	-58	33.0	.205 4L Stud
TVU 0.5B	860	0.5	12.0	20.0	150	-58	33.0	.205 4L Stud
TVU 001	860	1.0	10.0	20.0	440	-60	9.0	.280 4L Stud
TVU 002	860	2.0	10.0	25.0	410	-60	10.0	.280 4L Stud
TVU 004	860	4.0	8.5	25.0	850	-60	7.0	.280 4L Stud
TVU 012	860	12	9.0	26.5	2 x 0.85	-52	1.6	.400 8L Flg
TVU 014	860	14	8.5	25.0	2 x 850	-50	2.5	.250 Bal Flg
TVU 020	860	20	8.5	26.5	2 x 1350	-46	1.2	.400 Bal Flg (A)
		40*	7.5	28.0	2 x 100	–		
TVU 025	860	25	8.0	25.0	2 x 1600	-45	1.0	.450 Bal Flg (A)
		50*	7.0	28.0	2 x 250	–		
TVU 100	860	100*	8.5	28.0	2 x 100	–	1.0	.450 Bal Flg (A)
TVU 150	860	40	11.0	26.5	2 x 3000	-52	0.55	.400 Bal Flg (C)
		150*	10.0	28.0	2 x 150	–		
TVU 150A	860	150*	6.5	28.0	2 x 500	–	0.55	.450 Bal Flg (B)

All transistors are configured common emitter.
[1] Vision = –8dB, Sound = –10dB and Chroma = –16dB
** 1 dB compression point.*

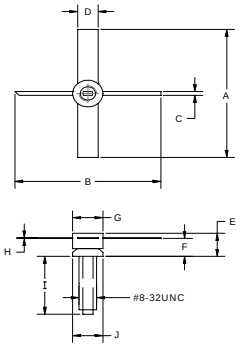
PACKAGE OUTLINE DRAWINGS

Package Style .138 2L Flg



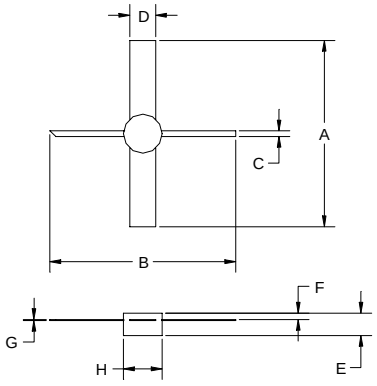
DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.025 / 0.635	
B	.138 / 3.505	
C	.275 / 6.985	
D	.375 / 9.525	
E	.031 / 0.787	
F	.062 / 1.575	

Package Style .205 4L Stud



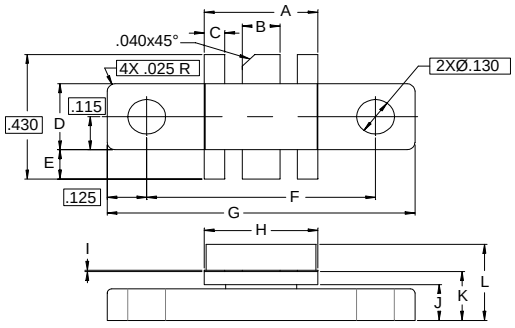
DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.976 / 24.800	1.000 / 25.4000
B	.976 / 24.800	1.000 / 25.4000
C	.028 / 0.700	.031 / 0.800
D	.138 / 3.500	
E	.161 / 4.100	.196 / 5.000
F	.098 / 2.500	.110 / 2.800
G	.200 / 5.100	.208 / 5.300
H	.004 / 0.100	.006 / 0.150
I	.425 / 10.800	.465 / 11.800
J	.200 / 5.100	2.05 / 5.200

Package Style .205 4L Pill



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.976 / 24.800	1.00 / 25.400
B	.976 / 24.800	1.00 / 25.400
C	.028 / 0.700	.031 / 0.800
D	.138 / 3.500	
E	.106 / 2.700	.139 / 3.400
F	.039 / 1.000	.047 / 1.200
G	.004 / 0.100	.006 / 0.150
H	.200 / 5.100	.208 / 5.300

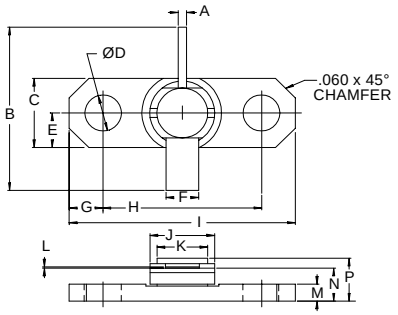
Package Style .230 6L Flg



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.355 / 9.02	.365 / 9.27
B	.115 / 2.92	.125 / 3.18
C	.075 / 1.91	.085 / 2.16
D	.225 / 5.72	.235 / 5.97
E	.090 / 2.29	.110 / 2.79
F	.720 / 18.29	.730 / 18.54
G	.970 / 24.64	.980 / 24.89
H	.355 / 9.02	.365 / 9.27
I	.004 / 0.10	.006 / 0.15
J	.120 / 3.05	.130 / 3.30
K	.160 / 4.06	.180 / 4.57
L	.230 / 5.84	.260 / 6.60

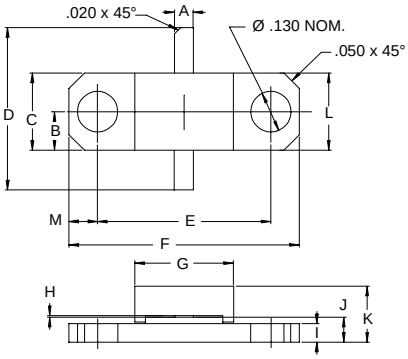
PACKAGE OUTLINE DRAWINGS

Package Style .250 2L Flg



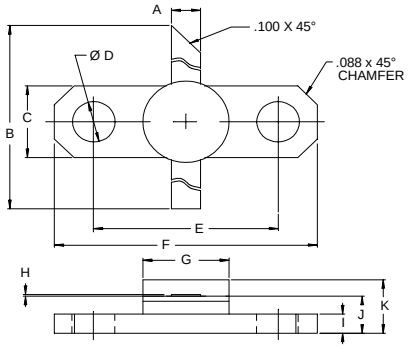
DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.028 / 0.71	.032 / 0.81
B	.740 / 18.80	
C	.245 / 6.22	.255 / 6.48
D	.128 / 3.25	.132 / 3.35
E	.125 / 3.18	
F	.110 / 2.79	.117 / 2.97
G	.117 / 2.97	
H	.560 / 14.22	.570 / 14.48
I	.790 / 20.07	.810 / 20.57
J	.225 / 5.72	.235 / 5.97
K	.165 / 4.19	.185 / 4.70
L	.003 / 0.08	.007 / 0.18
M	.058 / 1.47	.068 / 1.73
N	.119 / 3.02	.135 / 3.43
P	.149 / 3.78	.187 / 4.75

Package Style .250 2L Flg (A)



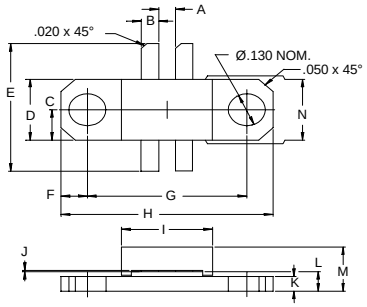
DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.055 / 1.40	.065 / 1.65
B	.124 / 3.15	
C	.243 / 6.17	.253 / 6.43
D	.635 / 16.13	.665 / 16.89
E	.555 / 14.10	.565 / 14.35
F	.739 / 18.77	.749 / 19.02
G	.315 / 8.00	.325 / 8.26
H	.002 / 0.05	.006 / 0.15
I	.055 / 1.40	.065 / 1.65
J	.075 / 1.91	.095 / 2.41
K		.190 / 4.83
L	.245 / 6.22	.255 / 6.48
M	.092 / 2.34	

Package Style .250 2L Flg (B)



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.095 / 2.41	.105 / 2.67
B	1.050 / 26.67	
C	.245 / 6.22	.255 / 6.48
D	.120 / 3.05	.140 / 3.56
E	.552 / 14.02	.572 / 14.53
F	.790 / 20.07	.810 / 20.57
G		.285 / 7.24
H	.003 / 0.08	.007 / 0.18
I	.052 / 1.32	.072 / 1.83
J	.120 / 3.05	.130 / 3.30
K		.210 / 5.33

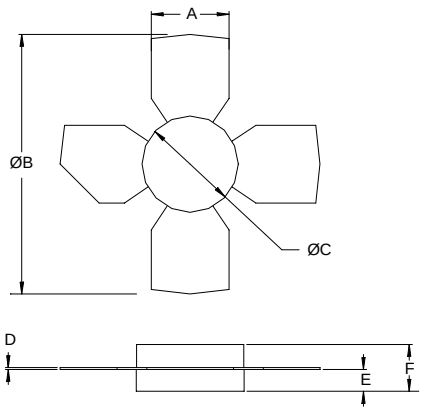
Package Style .250 Bal Flg



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.060 / 1.52	
B	.055 / 1.40	.065 / 1.65
C	.125 / 3.18	
D	.243 / 6.17	.255 / 6.48
E	.630 / 16.00	.670 / 17.01
F	.092 / 2.34	
G	.555 / 14.10	.565 / 14.35
H	.739 / 18.77	.750 / 19.05
I	.315 / 8.00	.327 / 8.31
J	.002 / 0.05	.006 / 0.15
K	.055 / 1.40	.065 / 1.65
L	.075 1.91	.095 / 2.41
M		.190 / 4.83
N	.245 / 6.22	.257 / 6.53

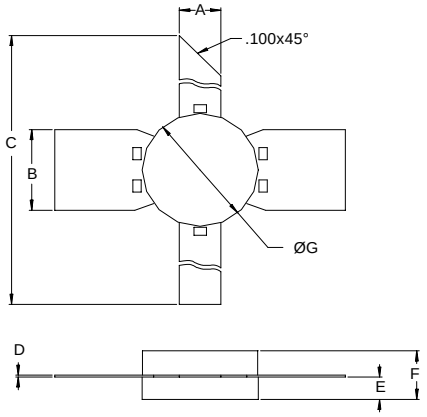
PACKAGE OUTLINE DRAWINGS

Package Style .280 4L Pill



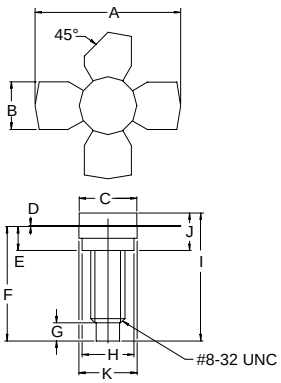
DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.220 / 5.59	.230 / 5.84
B		1.055 / 26.80
C	.275 / 6.99	.285 / 7.24
D	.004 / 0.10	.006 / 0.15
E	.050 / 1.27	.060 . 1.52
F	.118 / 3.00	.130 / 3.30

Package Style .280 4L Pill (A)



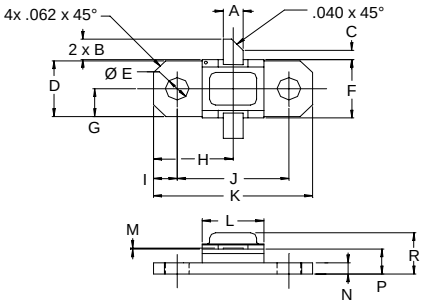
DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.095 / 2.41	.105 / 2.67
B	.195 / 4.95	.205 / 5.21
C	1.000 / 25.40	
D	.004 / 0.10	.007 / 0.18
E	.050 / 1.27	.065 / 1.65
F		.145 / 3.68
G	.275 / 6.99	.285 / 7.21

Package Style .280 4L Stud



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	1.010 / 25.65	1.055 / 26.80
B	.220 / 5.59	.230 /5.84
C	.270 / 6.86	.285 / 7.24
D	.003 / 0.08	.007 / 0.18
E	.117 / 2.97	.137 / 3.48
F	.572 / 14.53	
G	.130 / 3.30	
H	.245 / 6.22	.255 / 6.48
I	.640 / 16.26	
J	.175 / 4.45	.217 / 5.51
K	.275 / 6.99	.285 / 7.24

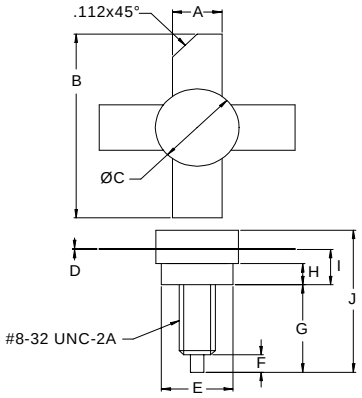
Package Style .310 2L Flg



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.095 / 2.41	.105 / 2.67
B	.100 / 2.54	.120 / 3.05
C	.050 / 1.27	
D	.286 / 7.26	.306 / 7.77
E	.110 / 2.79	.130 / 3.30
F	.306 / 7.77	.318 / 8.08
G	.148 / 3.76	
H	.400 / 10.16	
I	.119 / 3.02	
J	.552 / 14.02	.572 / 14.53
K	.790 / 20.07	.810 / 20.57
L	.300 / 7.62	.320 / 8.13
M	.003 / 0.08	.006 / 0.15
N	.052 / 1.32	.072 / 1.83
P	.118 / 3.00	.131 / 3.33
R		.230 / 5.84

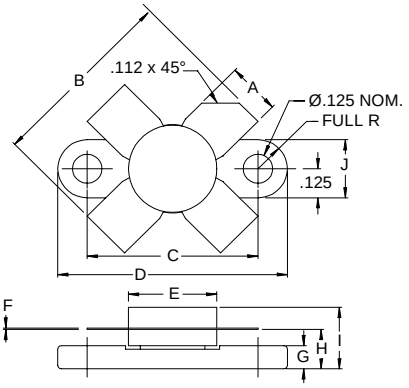
PACKAGE OUTLINE DRAWINGS

Package Style .380 4L Stud



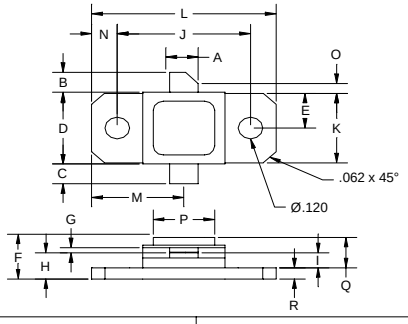
DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.220 / 5.59	.230 / 5.84
B	.980 / 24.89	
C	.370 / 9.40	.385 / 9.78
D	.004 / 0.10	.007 / 0.18
E	.320 / 8.13	.330 / 8.38
F	.100 / 2.54	.130 / 3.30
G	.450 / 11.43	.490 / 12.45
H	.090 / 2.29	.100 / 2.54
I	.155 / 3.94	.175 / 4.45
J		.750 / 19.05

Package Style .380 4L Flg



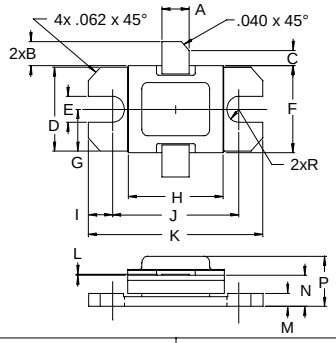
DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.220 / 5.59	.230 / 5.84
B	.785 / 19.94	
C	.720 / 18.29	.730 / 18.54
D	.970 / 24.64	.980 / 24.89
E		.385 / 9.78
F	.004 / 0.10	.006 / 0.15
G	.085 / 2.16	.105 / 2.67
H	.160 / 4.06	.180 / 4.57
I		.280 / 7.11
J	.240 / 6.10	.255 / 6.48

Package Style .400 2L Flg



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.140 / 3.56	
B	.110 / 2.80	
C	.110 / 2.80	
D	.395 / 10.03	.407 / 10.34
E	.193 / 4.90	
F		.230 / 5.84
G	.003 / 0.08	.006 / 0.15
H	.118 / 3.00	.131 / 3.33
I	.063 / 1.60	
J	.650 / 16.51	
K	.386 / 9.80	
L	.900 / 22.86	
M	.450 / 11.43	
N	.125 / 3.18	
O	.050 / 1.27	
P	.405 / 10.29	
Q	.170 / 4.32	
R	.062 / 1.58	

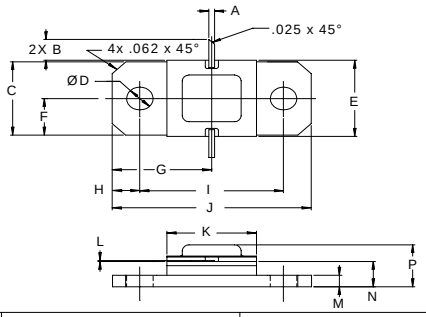
Package Style .400 2L Flg (A)



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.135 / 3.43	.145 / 3.68
B	.100 / 2.54	.120 / 3.05
C	.050 / 1.27	
D	.376 / 9.55	.396 / 10.06
E	.110 / 2.79	.130 / 3.30
F	.395 / 10.03	.407 / 10.34
G	.193 / 4.90	
H	.490 / 12.45	.510 / 12.95
I	.100 / 2.54	
J	.690 / 17.53	.710 / 18.03
K	.890 / 22.61	.910 / 23.11
L	.003 / 0.08	.006 / 0.18
M	.052 / 1.32	.072 / 1.83
N	.118 / 3.00	.131 / 3.33
P		.230 / 5.84

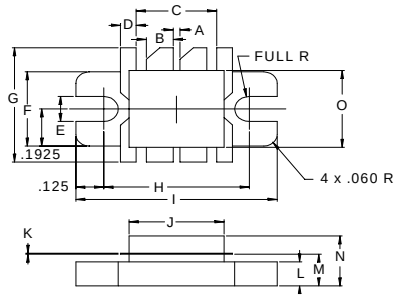
PACKAGE OUTLINE DRAWINGS

Package Style .400 2NL Flg



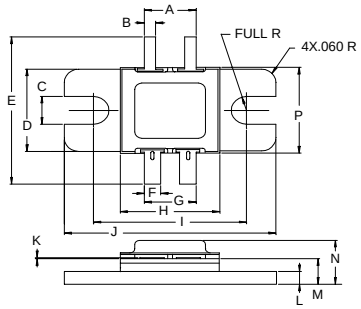
DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.020 / 0.51	.030 / 0.76
B	.100 / 2.54	
C	.376 / 9.55	.396 / 10.06
D	.110 / 2.79	.130 / 3.30
E	.395 / 10.03	.407 / 10.34
F	.193 / 4.90	
G	.450 / 11.43	
H	.125 / 3.18	
I	.640 / 16.26	.660 / 16.76
J	.890 / 22.61	.910 / 23.11
K	.395 / 10.03	.415 / 10.54
L	.004 / 0.10	.007 / 0.18
M	.052 / 1.32	.072 / 1.83
N	.118 / 3.00	.131 / 3.33
P		.230 / 5.84

Package Style .400 8L Flg



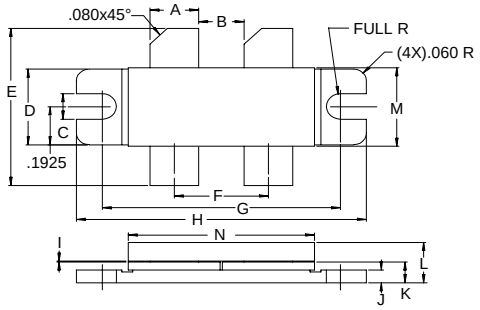
DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.030 / 0.76	
B	.115 / 2.92	.125 / 3.18
C	.360 / 9.14	
D	.065 / 1.65	.075 / 1.91
E	.130 / 3.30	
F	.380 / 9.65	.390 / 9.91
G	.735 / 18.67	.765 / 19.43
H	.645 / 16.38	.655 / 16.64
I	.895 / 22.73	.905 / 22.99
J	.420 / 10.67	.430 / 10.92
K	.003 / 0.08	.007 / 0.18
L	.120 / 3.05	.130 / 3.30
M	.159 / 4.04	.175 / 4.45
N		.280 / 7.11
O	.395 / 10.03	.405 / 10.29

Package Style .400 Bal Flg (A)



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.210 / 5.33	.230 / 5.84
B	.045 / 1.14	.055 / 1.40
C	.125 / 3.18	.135 / 3.43
D	.380 / 9.65	.390 / 9.91
E	.770 / 19.56	.830 / 21.08
F	.070 / 1.78	.080 / 2.03
G	.215 / 5.46	.235 / 5.97
H	.420 / 10.67	.430 / 10.92
I	.645 / 16.38	.655 / 16.64
J	.895 / 22.73	.905 / 22.99
K	.002 / 0.05	.006 / 0.15
L	.058 / 1.47	.065 / 1.65
M	.115 / 2.92	.130 / 3.30
N		.230 / 5.84
P	.395 / 10.03	.405 / 10.29

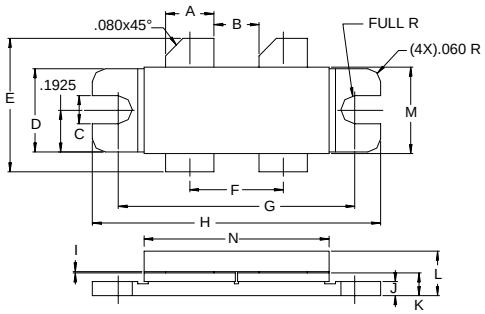
Package Style .400 Bal Flg (C)



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.220 / 5.59	.230 / 5.84
B	.210 / 5.33	
C	.120 / 3.05	.130 / 3.30
D	.380 / 9.65	.390 / 9.91
E	.780 / 19.81	.820 / 20.83
F	.435 / 11.05	
G	1.090 / 27.69	
H	1.335 / 33.91	1.345 / 34.16
I	.003 / 0.08	.007 / 0.18
J	.060 / 1.52	.070 / 1.78
K	.082 / 2.08	.100 / 2.54
L		.205 / 5.21
M	.395 / 10.03	.407 / 10.34
N	.850 / 21.59	.870 / 22.10

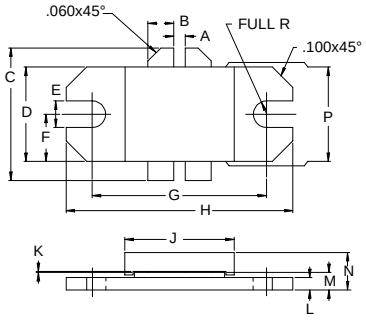
PACKAGE OUTLINE DRAWINGS

Package Style .400 Bal Flg (D)



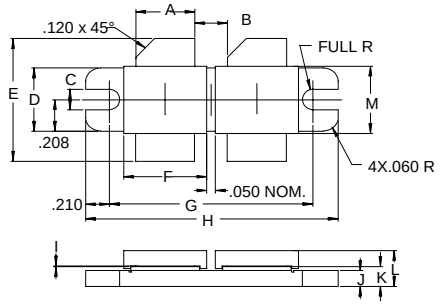
DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.220 / 5.59	.230 / 5.84
B	.210 / 5.33	
C	.125 / 3.18	
D	.380 / 9.65	.390 / 9.91
E	.580 / 14.73	.620 / 15.75
F	.435 / 11.05	
G	1.090 / 27.69	1.105 / 28.07
H	1.335 / 33.91	1.345 / 34.16
I	.003 / 0.08	.007 / 0.18
J	.060 / 1.52	.070 / 1.78
K	.100 / 2.54	.115 / 2.92
L		.230 / 5.84
M	.395 / 10.03	.407 / 10.34
N	.850 / 21.59	.870 / 22.10

Package Style .450 Bal Flg (A)



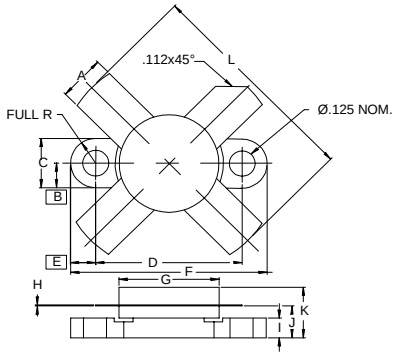
DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.055 / 1.40	
B	.120 / 3.05	.130 / 3.30
C		.785 / 19.94
D	.455 / 11.56	.465 / 11.81
E	.120 / 3.05	.130 / 3.30
F	.230 / 5.84	
G	.838 / 21.28	.850 / 21.59
H	1.095 / 27.81	1.105 / 28.07
J	.525 / 13.34	.535 / 13.59
K	.002 / 0.05	.005 / 0.15
L	.055 / 1.40	.065 / 1.65
M	.080 . 2.03	.095 / 2.41
N		.195 / 4.95
P	.445 / 11.30	.455 / 11.56

Package Style .450 Bal Flg (B)



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.373 / 9.47	.385 / 9.78
B	.205 / 5.21	
C	.120 / 3.25	.130 / 3.30
D	.411 / 10.44	.421 / 10.69
E	.825 / 20.96	.865 / 21.97
F	.525 / 13.34	.535 / 13.59
G	1.255 / 31.88	1.265 / 32.18
H	1.675 / 42.55	1.685 / 42.80
I	.002 / 0.05	.006 / 0.15
J	.095 / 2.41	.105 / 2.67
K	.115 / 2.92	.135 / 3.43
L		.250 / 6.35
M	.445 / 11.30	.457 / 11.61

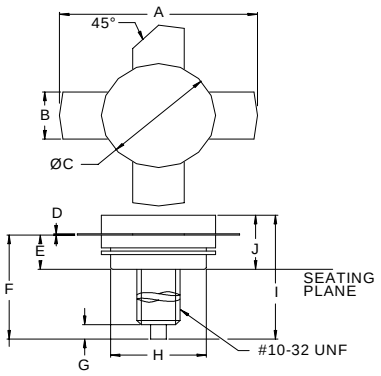
Package Style .500 4L Flg



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.220 / 5.59	.230 / 5.84
B	.125 / 3.18	
C	.245 / 6.22	.255 / 6.48
D	.720 / 18.28	.7.30 / 18.54
E	.125 / 3.18	
F	.970 / 24.64	.980 / 24.89
G	.495 / 12.57	.505 / 12.83
H	.003 / 0.08	.007 / 0.18
I	.090 / 2.29	.110 / 2.79
J	.150 / 3.81	.175 / 4.45
K		.280 / 7.11
L	.980 / 24.89	1.050 / 26.67

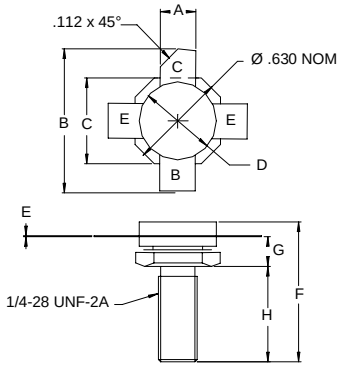
PACKAGE OUTLINE DRAWINGS

Package Style .500 4L Stud



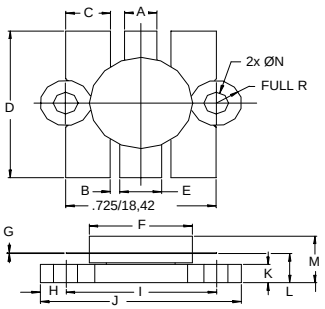
DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	1.010 / 25.65	1.050 / 26.67
B	.220 / 5.59	.230 / 5.84
C	.495 / 12.57	.505 / 12.83
D	.003 / 0.08	.007 / 0.18
E	.160 / 4.06	.180 / 4.57
F	.622 / 15.80	
G	.100 / 2.54	.130 / 3.31
H	.415 / 10.54	.425 / 10.80
I	.720 / 18.29	
J	.250 / 6.35	.290 / 7.37

Package Style .500 4L Stud (A)



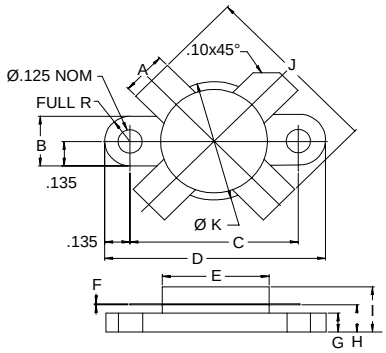
DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.220 / 5.59	.230 / 5.84
B		1.050 / 26.67
C	.545 / 13.84	.555 / 14.10
D	.495 / 12.57	.505 / 12.83
E	.003 / 0.08	.007 / 0.18
F		.830 / 21.08
G	.185 / 4.70	.198 / 5.03
H	.497 / 12.62	.530 / 13.46

Package Style .500 6L Flg



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.150 / 3.43	.160 / 4.06
B	.045 / 1.14	
C	.210 / 5.33	.220 / 5.59
D	.835 / 21.21	.865 / 21.97
E	.200 / 5.08	.210 / 5.33
F	.490 / 12.45	.510 / 12.95
G	.003 / 0.08	.007 / 0.18
H	.125 / 3.18	
I	.725 / 18.42	
J	.970 / 24.64	.980 / 24.89
K	.090 / 2.29	.105 / 2.67
L	.150 / 3.81	.170 / 4.32
M		.285 / 7.24
N	.120 / 3.05	.135 / 3.43

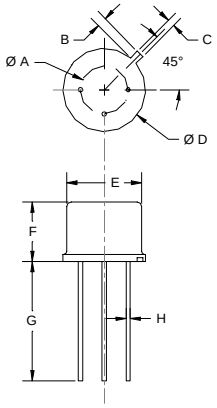
Package Style .550 4L Flg



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.225 / 5.72	.235 / 5.97
B	.265 / 6.73	.275 / 6.96
C	.880 / 21.84	.870 / 22.10
D	1.130 / 28.70	1.140 / 28.96
E	.545 / 13.84	.555 / 14.10
F	.003 / 0.08	.007 / 0.18
G	.098 / 2.49	.118 / 3.00
H	.150 / 3.81	.170 / 4.32
I		.280 / 7.11
J	1.080 / 27.43	1.120 / 28.45
K	.625 / 15.88	.635 / 16.13

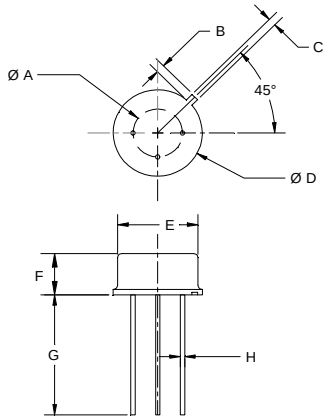
PACKAGE OUTLINE DRAWINGS

Package Style TO-39



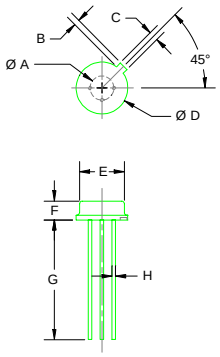
DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.200 / 5.080	
B	.029 / 0.740	.045 / 1.140
C	.028 / 0.720	.034 / 0.860
D	.335 / 8.510	.370 / 9.370
E	.305 / 7.750	.335 / 8.500
F	.240 / 6.100	.260 / 6.600
G	.500 / 12.700	
H	.016 / 0.407	.020 / 0.508

Package Style TO-39GE



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.200 / 5.080	
B	.029 / 0.740	.045 / 1.140
C	.028 / 0.720	.034 / 0.860
D	.355 / 9.020	.370 / 9.370
E	.315 / 8.010	.335 / 8.500
F	.165 / 4.200	.180 / 4.570
G	.500 / 12.700	.750 / 19.050
H	.016 / 0.410	.020 / 0.508

Package Style TO-46



DIM	MINIMUM inches/mm	MAXIMUM inches/mm
A	.100 / 2.540	
B	.028 / 0.710	.048 / 1.220
C	.035 / 0.890	.046 / 1.170
D	.209 / 5.310	.229 / 5.840
E	.178 / 4.520	.195 / 4.950
F	.065 / 1.650	.085 / 2.160
G	.500 / 12.700	
H	.012 / 0.3050	.019 / 0.4830

MOTOROLA

Part Number	ASI Exact Replacement	ASI Similar Device	Pg #
LT3046	OSC-0.7L		13
MRF134	VFT5-28		5
MRF136	VFT15-28		5
MRF137	VFT30-28		5
MRF138	VFT30-28		5
MRF140	VFT150-28		5
MRF141	HFT150-28		2
MRF141G	VFT300-28		5
MRF148	VFT30-50		5
MRF150	HFT150-50		2
MRF151	VFT150-50		5
MRF151G	VFT300-50		5
MRF160	UFT5-28SL		5
MRF161	UFT5-28		5
MRF162	*Consult Factory*		na
MRF171	VFT45-28		5
MRF172	VFT80-28		5
MRF174		VFT150-28	5
MRF226	VMB10-12S		3
MRF227	*Consult Factory*		na
MRF229	VHB1-12T		4
MRF232	VMB10-12S		3
MRF233		VMB10-12S	3
MRF234		VMB40-12S	3
MRF237	*Consult Factory*		na
MRF240	VHB40-12S		4
MRF240A	VHB40-12F		4
MRF247	VHB80-12		4
MRF313	*Consult Factory*		na
MRF314	VHB25-28F		4
MRF314A	VHB25-28S		4
MRF315	VHB40-28F		4
MRF315A	VHB40-28S		4
MRF316		VHB125-28	4
MRF317	VHB125-28		4
MRF321	UML10		8
MRF323	UML25S		8
MRF325	UML25F		8
MRF326		UML70	8
MRF327	UML100		8

Part Number	ASI Exact Replacement	ASI Similar Device	Pg #
MRF392	UML125B		8
MRF393	UML125B		8
MRF401	HF30-28S		1
MRF406	HF20-12F		1
MRF410	HF15-28F		1
MRF410A	HF15-28S		1
MRF421	HF100-12		1
MRF421MP	HF100-12MP		1
MRF422	HF220-28		1
MRF422MP	HF220-28MP		1
MRF426	*Consult Factory*		na
MRF427	*Consult Factory*		na
MRF427A	*Consult Factory*		na
MRF428	HF150-50F		2
MRF429		HF150-50F	2
MRF429MP		HF150-50FMP	2
MRF433	HF10-12F		1
MRF448	HF220-50		2
MRF449A	HF20-12S		1
MRF450	HF50-12F		1
MRF450A	HF50-12S		1
MRF454	HF75-12		1
MRF455	HF50-12F		1
MRF455A	HF50-12S		1
MRF458	*Consult Factory*		na
MRF460	*Consult Factory*		na
MRF464	HF100-28		1
MRF464A	*Consult Factory*		na
MRF466	HF75-28F		1
MRF492	*Consult Factory*		na
MRF492A	*Consult Factory*		na
MRF604		OSC-0.7L	13
MRF627	ULBM05		6
MRF630	*Consult Factory*		na
MRF641	ULBM15		6
MRF644	ULBM25		6
MRF646	ULBM45		6
MRF652		ULBM5	6
MRF653		ULBM10	6
MRF838		MLN1027SS	13

Part Number	ASI Exact Replacement	ASI Similar Device	Pg #
MRF839		MLN1030SS	13
MRF841F		MLN1033S	13
MRF890	CBSL2SS		7
MRF891	CBSL6		7
MRF892	CBSL15		7
MRF894	CBSL30		7
MRF898	*Consult Factory*		na
MRF1000MA	*Consult Factory*		na
MRF1000MB	AVD0.5P		9
MRF1000MC	*Consult Factory*		na
MRF1002MA	*Consult Factory*		na
MRF1002MB	AVD002P		9
MRF1002MC	AVD002F		9
MRF1004MA	*Consult Factory*		na
MRF1004MB	AVD004P		9
MRF1004MC	AVD004F		9
MRF1015MA	*Consult Factory*		na
MRF1015MB	AVD015P		9
MRF1015MC	AVD015F		9
MRF1035MA	*Consult Factory*		na
MRF1035MB	AVD035P		9
MRF1035MC	AVD035F		9
MRF1090MA	*Consult Factory*		na
MRF1090MB	AVD090P		*9*
MRF1090MC	AVD090F		9
MRF1150M	AVD150		9
MRF1250M	AVD250		9
MRF1325M	AVD350		9
MRF1946	VHB25-12F		4
MRF1946A	VHB25-12S		4
MRF2001	ASI2001		12
MRF2003	ASI2003		12
MRF2005	ASI2005		12
MRF2010	ASI2010		12
MRF4070	VHB80-12		4
MRF5174	UML3		8
MRF5175	UML5		8
MRW2001	ASI2001		12
MRW2003	ASI2003		12
MRW2005	ASI2005		12

Part Number	ASI Exact Replacement	ASI Similar Device	Pg #
MRW2010	ASI2010		12
MRW2301		ASI2302	12
MRW2304	ASI2304		12
MRW2307	ASI2307		12
MRW3000	ASI3000		12
MRW3001	ASI3001		12
MRW3003	ASI3003		12
MRW3005	ASI3005		12
MRW52501		MLN2030SS	13
MRW52601	MLN2033F		13
MRW52602		MLN2033F	13
MRW52604	MLN1037F		13
MRW53501	MLN2027F		13
MRW53601		MLN2027SS	13
MRW53502		MLN2030SS	13
MRW53602		MLN2030F	13
MRW53505		MLN2037F	13
MRW54501		MLN2027SS	13
MRW54601		MLN2027F	13
MRW62601	OSC-1.3SH		13
MRW62602		OSC-2.0SM	13
MRW63601		OSC-1.3SH	13
MRW63602		OSC-1.3SH	13
PT8809A	ULBM2		6
PT8810	ULBM5		6
PT8811A	ULBM10		6
PT8852		VLB40-12F	3
PT8852A		VLB40-12S	3
PT8853	VLB40-12F		3
PT8853A	VLB40-12S		3
PT9700		UMIL1	8
PT9701B	UML5		8
PT9702B	UML10		8
PT9703B	UML15		8
PT9704B	UML25S		8
PT9730		VHB10-28S	4
PT9731	VHB25-28S		4
PT9732	VHB10-28S		4
PT9734		VHB25-28S	4
PT9780	HF100-28		1

Part Number	ASI Exact Replacement	ASI Similar Device	Pg #
PT9783		HF75-28F	1
PT9783A		HF75-28S	1
PT9784	HF75-28F		1
PT9784A	HF75-28S		1
PT9785	HF100-12		1
PT9790	HF150-50F		2
PT9798	HF75-50F		2
RF1029	MLN1033S		13
RF1030		MLN1037S	13
RF1032	MLN1037S		13
TP251		ULBM05	6
TP254		ULBM2	6
TP254S		ULBM2SL	6
TP301		MLN1027SS	13
TP302		MLN1027SS	13
TP303		MLN1030SS	13
TP304		MLN1037S	13
TP2031	Consult Factory		na
TP2032	VHB10-12S		4
TP2032F	VHB10-12F		4
TP2033	VHB25-12S		4
TP2034	VHB40-12S		4
TP2034F	VHB40-12F		4
TP2037	VHB40-12S		4
TP2300	*Consult Factory*		na
TP2304	VMB40-12S		3
TP2306	*Consult Factory*		na
TP2307	*Consult Factory*		na
TP2314	*Consult Factory*		na
TP2317	VHB25-12S		4
TP2325	VHB25-12S		4
TP2330	VHB40-12S		4
TP2330F	VHB40-12F		4
TP2370	*Consult Factory*		na
TP2502	ULBM2SL		6
TP2503	ULBM5SL		6
TP2505	ULBM5		6
TP2505S	ULBM5SL		6
TP2510	ULBM10		6
TP3009		MLN1027SS	13

Part Number	ASI Exact Replacement	ASI Similar Device	Pg #
TP3009S	*Consult Factory*		na
TP3010		MLN1027SS	13
TP3010S	*Consult Factory*		na
TP3020A	CBSL2		7
TP3023	*Consult Factory*		na
TP3024A	CBSL30B		7
TP3026	CBSL30		7
TP5002	MLN1030S		13
TP5002S	MLN1030SL		13
TP5050		ULBM45	6
TP8828	VHB10-12S		4
TP8828F	VHB10-12F		4
TP9380	FMB075		14
TP9383	FMB150		14
TP9386	VHB125-28		4
TP9390	*Consult Factory*		na
TPM401	MLN1027S		13
TPM401S	MLN1027SL		13
TPM405	UML5		8
TPM425	UML25S		8
TPM4100		UML125B	8
TPM4130		UML125B	8
TPV364	TVV010		14
TPV375	TVV020		14
TPV385	TVV014A		14
TPV387		TVV014A	14
TPV394A	TVV005		14
TPV590	TVU0.5B		15
TPV591	TVU0.5B		15
TPV593	TVU002		15
TPV595A	TVU014		15
TPV596A	TVU0.5		15
TPV597	TVU001		15
TPV598	TVU004		15
TPV695B	*Consult Factory*		na
TPV698	TVU004		15
TPV3100	TVV100		14
TPV3250B	*Consult Factory*		na
TPV5055B	TVU025		15
TPV7025	TVU025		15

PHILIPS

Part Number	ASI Exact Replacement	ASI Similar Device	Pg #
BFQ42	*Consult Factory*		na
BFQ43	*Consult Factory*		na
BFQ43S	*Consult Factory*		na
BLF147		VFT150-28	5
BLF175		VFT30-50	5
BLF177		VFT150-50	5
BLF242		VFT5-28	5
BLF244		VFT15-28	5
BLF245		VFT30-28	5
BLF246		VFT45-28	5
BLF278		VFT300-50	5
BLF368		VFT300-28	5
BLU11/SL		ULBM2SL	6
BLU15/12		ULBM10	6
BLU20/12	ULBM15		6
BLU30/12	ULBM25		6
BLU45/12	ULBM45		6
BLU60/12		ULBM45	6
BLU99		ULBM5	6
BLU99/SL		ULBM5SL	6
BLV10	VHB10-12F		4
BLV11		VHB10-12F	4
BLV12	VHB25-12F		4
BLV13	VHB40-12F		4
BLV20	VHB10-28F		4
BLV21		VHB10-28F	4
BLV25	FMB175		14
BLV30	TVU002		15
BLV31	TVV005		14
BLV33		TVV030A	14
BLV33F	TVV014A		14
BLV36	TVV100		14
BLV37	*Consult Factory*		na
BLV57	TVU012		15
BLV58	TVU025		15
BLV59	*Consult Factory*		na
BLV62		TVU150	15
BLV75-12		VHB80-12	4
BLV80-28		VHB125-28	4
BLV97CE	CBSL30		7

Part Number	ASI Exact Replacement	ASI Similar Device	Pg #
BLV98CE	CBSL15		7
BLV99	CBSL2SS		7
BLV99/SL	*Consult Factory*		na
BLV100		CBSL6	7
BLV103		CBSL6	7
BLV193		CBSL15	7
BLV194	CBSL15		7
BLV945A	CBSL30B		7
BLV945B	CBSL30B		7
BLV947	CBSL100		7
BLV948	CBSL150		7
BLW29	VHB10-12S		4
BLW30	VHB25-12S		4
BLW31	VHB25-28S		4
BLW32	TVU0.5		15
BLW33	TVU001		15
BLW34	TVU004		15
BLW40	VHB40-12S		4
BLW50F	HF75-50F		2
BLW60C	VHB50-28S		4
BLW76	HF75-28F		1
BLW77	HF100-28		1
BLW78	*Consult Factory*		na
BLW79	ULBM2		6
BLW80	ULBM5		6
BLW81	ULBM10		6
BLW83	HF10-12F		1
BLW84	VHB25-28F		4
BLW85	VHB50-12F		na
BLW86	VHB40-28F		4
BLW87	VHB25-12F		4
BLW89		CBSL2	7
BLW90		UML3	8
BLW91		UML10	8
BLW95	HF150-50F		2
BLW96	HF220-50		2
BLW97	HF220-28		1
BLW98	TVU004		15
BLW99	HF75-12		1
BLX13		HF30-28S	1

Part Number	ASI Exact Replacement	ASI Similar Device	Pg #
BLX13C	HF30-28S		1
BLX14	*Consult Factory*		na
BLX15	HF150-50S		2
BLX39	HF75-28S		1
BLX65	*Consult Factory*		na
BLX65E	*Consult Factory*		na
BLX65ES	*Consult Factory*		na
BLX68		ULBM2	6
BLX91A		UML1	8
BLX92A		UML3	8
BLX93A		UML1	8
BLX94A		UML25S	8
BLX94C		UML25S	8
BLX96	TVU001		15
BLX97	TVU001		15
BLX98	TVU004		15
BLY87A	VHB10-12S		4
BLY87C	VHB10-12S		4
BLY88A		VHB25-12S	4
BLY88C		VHB25-12S	4
BLY89A		VHB25-12S	4
BLY89C	VHB25-12S		4
BLY90	*Consult Factory*		na
BLY91C	VHB10-28S		4
BLY92A	VHB10-28S		4
BLY92C	VHB10-28S		4
BLY93A		VHB25-28S	4
BLY93C	VHB25-28S		4
BLY94	*Consult Factory*		na
BLV98CE	CBSL15		7
BLV99	CBSL2SS		7
BLV99/SL	*Consult Factory*		na
BLV100		CBSL6	7
BLV103		CBSL6	7
BLV193		CBSL15	7
BLV194	CBSL15		7
BLV945A	CBSL30B		7
BLV945B	CBSL30B		7

STMicroelectronics (formerly SGS-THOMSON)

Part Number	ASI Exact Replacement	ASI Similar Device	Pg #
AM1011-070	*Consult Factory*		na
AM1011-075	*Consult Factory*		na
AM1011-300	*Consult Factory*		na
AM1011-400	*Consult Factory*		na
AM1011-500	*Consult Factory*		na
AM1214-100	ALR100		11
AM1214-200	ALR200		11
AM1214-325	ALR325		11
AM80912-005	AJT006		10
AM80912-015	AJT015		10
AM80912-030	AJT030		10
AM80912-085	AJT085		10
AM80912-150	AJT150		10
AM81214-006	ALR006		11
AM81214-015	ALR015		11
AM81214-030	ALR030		11
AM81214-060	ALR060		11
MSC1000M	*Consult Factory*		na
MSC1000MP	AVD0.5P		9
MSC1004M	AVD002F		9
MSC1004MP	AVD002P		9
MSC1035M	AVD035F		9
MSC1035MP	AVD035P		9
MSC80185		MLN2027SS	13
MSC80186		MLN2027SS	13
MSC80195	MLN2027F		13
MSC80196	MLN2030F		13
MSC80197	MLN2033F		13
MSC81020	ASI1020		12
MSC81058	ASI1010		12
MSC81111	ASI1005		12
MSC81118	ASI1002		12
MSC81250M	AVD250		9
MSC81325M	AVD350		9
MSC81350M	AVF350		10
MSC81400M	AVD400		9
MSC81402		ASI2302	12
MSC81450M	AVF450		10
MSC82001	ASI2001		12
MSC82003	ASI2003		12

Part Number	ASI Exact Replacement	ASI Similar Device	Pg #
MSC82005	ASI2005		12
MSC82010	ASI2010		12
MSC82040		MLN1027SS	13
MSC82100	MLN1027F		13
MSC82302	ASI2302		12
MSC82304	ASI2304		12
MSC82306		ASI2307	12
MSC82307	ASI2307		12
MSC83301	ASI3001		12
MSC83303	ASI3003		12
MSC83305	ASI3005		12
SD1134	ULBM2		6
SD1135	ULBM5		6
SD1135-03	ULBM5SL		6
SD1274	VHB25-12S		4
SD1274-01	VHB25-12F		4
SD1275	VHB40-12S		4
SD1275-01	VHB40-12F		4
SD1398	CBSL6		7
SD1405	HF75-12		1
SD1407	HF100-28		1
SD1411	*Consult Factory*		na
SD1414	UHBM45		6
SD1423	CBSL15		7
SD1424	CBSL30B		7
SD1433	ULBM10		6
SD1434	ULBM45		6
SD1446	VLB70-12F		3
SD1448	TVU004		15
SD1455	TVV020		14
SD1456	TVV100		14
SD1457	FMB075		14
SD1458	TVV014A		14
SD1459	TVV030		14
SD1460	FMB150		14
SD1463	UML125B		8
SD1470	UML100		8
SD1476	*Consult Factory*		na
SD1477	VHB100-12		4
SD1480	VHB125-28		4

STMicroelectronics (formerly SGS-THOMSON)

Part Number	ASI Exact Replacement	ASI Similar Device	Pg #
SD1487	HF100-12		1
SD1488	ULBM35		6
SD1489	TVU025		15
SD1490	TVU025		15
SD1492	TVU150A		15
SD1528-06	AVD015P		9
SD1528-08		AVD015F	9
SD1530-01	AVD035P		9
SD1530-08		AVD035F	9
SD1534-01	AVD075P		9
SD1534-08		AVD075F	9
SD1538-02		AVD150	9
SD1538-08		AVD150	9
SD1540		AVD350	9
SD1540-08		AVD350	9
SD1541-01	AVD400		9
SD1541-09	AVF450		10
SD1542	AVD550		9
SD1542-04	AVF600		10
SD1542-42	Consult Factory		na
SD1563	AUR300		11
SD1565	AUR500		11
SD1650	Consult Factory		na
SD1660	Consult Factory		na
SD1680	Consult Factory		na
SD1726	HF150-50F		2
SD1727	HF150-50S		2
SD1728	HF250-50		2
SD1729		HF100-28	1
SD1730	HF220-28		1
SD1731	HF220-50		2
SD1732	TVU014		15
SD1733	HF75-50S		2
SD1855	*Consult Factory*		na
SD1888-03	ASAT25		12
SD1891-03		ASI4003	12
SD1893-03		ASI2010	12
SD1894		ASAT10	12
SD1895-03	ASAT15		12
SD1897	ASAT10		12

Part Number	ASI Exact Replacement	ASI Similar Device	Pg #
SD1899	ASAT30		12
SD2900	UFT5-28SL		5
SD2902	UFT15-28		5
SD2904	UFT30-28		5
SD2921	VFT150-50		5
SD2922	VFT300-50		5
SD4010	TVU020		15
SD4010-03		TVU020	15
SD4011	TVU004		15
SD4013	UML25F		8
SD4017	CBSL30		7
SD4100	TVU100		15
SD4200	TVU150		15
SD4590	CBSL150		7
SD4600	CBSL60B		7
SD5000	MLN1033S		13

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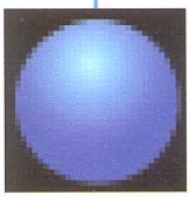

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